Title:

OSCILLATORY NEUROCOMPUTERS WITH DYNAMIC

CONNECTIVITY

**Preliminary Amendment** 

Page 2

Please replace the sentence on page 9, lines 5-10, with the following rewritten sentence:

-- The following formula may be used to determine the capture-range.

$$f_c = 1/(2 \bullet \pi) \bullet \sqrt{(2 \bullet \pi \bullet f_L)/(3.6 \bullet 1000 \bullet C2)}$$
 (ii)

where C2 is the capacitance of the similarly designated capacitor in FIG. 4 and  $f_{\text{L}}$  is the lock-

range.

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Please replace the sentence on page 9, lines 11-12, with the following rewritten sentence:

-By evaluating the formula for the capture range, one can see that the capture range is

limited by the low pass filter time constant.

Please replace the sentence on page 10, lines 4-8, with the following rewritten sentence:

In order to implement the multiplication operation as shown by the multiplication

circle 171 or 173, one should understand the following theory:

$$\cos(\omega c)\cos(\omega m)=(1/2)\bullet[\cos(\omega c-\omega m)+\cos(\omega c+\omega m)]$$

⇒ Fourier Transform ⇒

$$(1/4) \bullet [\delta(f + (fc - fm)) + \delta(f + (fc + fm)) + \delta(f - (fc - fm)) + \delta(f - (fc + fm))] = 0$$

Please replace the sentence on page 17, lines 7-8, with the following rewritten sentence:

Let us apply the external input a(t) with  $c_{ij} = \xi_i^0 \xi_j^0$  for a certain period of time.--

## In the Claims:

Please cancel claim 1 without prejudice.

Please cancel claim 2 without prejudice.

Please cancel claim 3 without prejudice.

Please cancel claim 4 without prejudice.